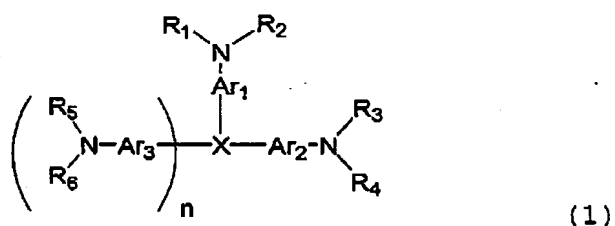


Claims

1. An arylamine compound having a molecular weight of from 1500 to 6000 represented by the general formula (1):



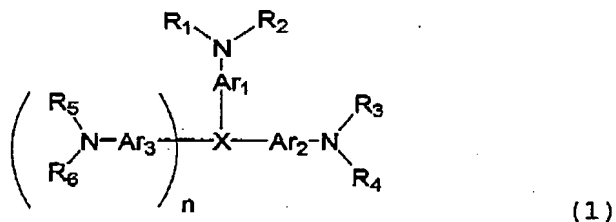
wherein X represents a single bond, CH, CH₂, N or NH; Ar₁, Ar₂ and Ar₃ represent a phenyl group, a biphenyl group or a terphenyl group; R₁, R₂, R₃, R₄, R₅ and R₆ each independently represent an aryl group, wherein the aryl group may be substituted with a diarylamino group so as to form a triphenylamine moiety structure, and further the terminal aryl groups may be substituted with a diarylamono structure group-containing group so as to form a triphenylamine-like moiety structure repeatedly; n is 0 or 1.

2. The arylamine compound as claimed in claim 1, having 9 or 10 nitrogen atoms in its molecule.

3. The arylamine compound as claimed in claim 2, having 10 nitrogen atoms in its molecule.

4. The arylamine compound as claimed in any one of claims 1 to 3, having from 7 to 9 triphenylamine-like moiety structures in its molecule.

5. An organic electroluminescence device comprising a pair of electrodes, and at least one organic layer interposed therebetween, wherein the device contains a compound having a molecular weight of from 1500 to 6000 represented by the following general formula (1) as a constituent material of the at least one organic layer:



wherein X represents a single bond, CH, CH₂, N or NH; Ar₁, Ar₂ and Ar₃ represent a phenyl group, a biphenyl group or a terphenyl group; R₁, R₂, R₃, R₄, R₅ and R₆ each independently represent an aryl group, wherein the aryl group may be substituted with a diarylamino group so as to form a triphenylamine moiety structure, and further the

terminal aryl groups may be substituted with a diarylamono structure group-containing group so as to form a triphenylamine-like moiety structure repeatedly; n is 0 or 1.

6. The organic electroluminescence device as claimed in claim 5, wherein the arylamine compound has 9 or 10 nitrogen atoms in its molecule.

7. The organic electroluminescence device as claimed in claim 6, wherein the arylamine compound has 10 nitrogen atoms in its molecule.

8. The organic electroluminescence device as claimed in any one of claims 5 to 7, wherein the arylamine compound has from 7 to 9 triphenylamine-like moiety structures in its molecule.